

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 92-066

WASTE DISCHARGE REQUIREMENTS FOR:

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION,
MARCONI CONFERENCE CENTER,
MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. The California Department of Parks and Recreation (the discharger) submitted a Report of Waste Discharge dated January 28, 1985 for the discharge of domestic wastewater from the Marconi Conference Center. Waste Discharge Requirements were issued on April 30, 1985.
2. The discharger operates wastewater collection, treatment, and disposal facilities at the Marconi Conference Center. The conference center is located on the east side of highway one, near the town of Marshall, in western Marin County. The treatment plant is located less than 1000 feet upslope from Tomales Bay, waters of the State. The Marconi Conference Center consists of thirteen buildings with facilities for guest lodging, meetings, dining and on-site staff. These facilities can accommodate 97 overnight guests and 125 day users. The daily sewage flows oscillate greatly due to the variable attendance rate at the conference center. Flows may be as low as several hundred gallons per day (gpd), but typically range from 4000- 8000 gpd.
3. A proposed general plan will expand the facilities to serve 200 overnight guests, 100 day users, 12 on-site staff and 40 day staff. The expansion or replacement of the existing sewerage facilities will be necessary to treat the wastewater generated from this expanded facility. This permit does not approve a capacity increase or use of the existing treatment plant for the proposed facilities.
4. Wastewater facilities consist of a collection system (with one lift station), a treatment plant, storage tank, and a leachfield. The major treatment units include, a comminutor, an extended aeration package plant, a sand filter and chlorination unit. The extended aeration unit was installed in the early 1970s and has a rated capacity of 25,000 gpd. The plant was refurbished in 1984. Currently operating at flows significantly below its rated capacity, the treatment plant functions satisfactorily. However, a study conducted by the discharger evaluating the performance of the plant has indicated that significant improvements to the facility are necessary to improve reliability and for any increases in flow that might be generated by new facilities.

5. This permit requires the following improvements to be made to the treatment plant and collection facility: (1) pump station at Marconi Hotel should have standby power or emergency storage and an alarm panel, (2) installation of an emergency generator at the treatment plant, (3) refurbishing of sand filters, (4) refurbishing or replacement of the redwood effluent storage tank, (5) development of a contingency plan to assure continuous operation of the treatment and disposal facilities as required by Board Resolution 74-10.
6. The wastewater disposal system consists of a leaching trench (similar to a conventional leaching system except that it extends up to the ground surface) which accepts secondary effluent from the treatment plant through a dosing siphon. Any effluent not absorbed into the trench due to excessive rainfall and saturated soils, flows out of the top of the trench, over the ground surface. A berm encloses the 1.8 acre disposal field. A ditch system and pump collect the surface runoff and return it to storage tanks for reapplication to the disposal field. On the average it has been calculated that the trench overflow would only occur seven days a year. This has not yet occurred probably due to the drought and the low flows the facility has experienced.
7. The assessment of the effluent disposal field by the discharger indicated that the system has adequate capacity for its existing use. However, this evaluation additionally identified several problems with the leachfield. These are discussed below:
 - The evaluation of the percolation rates of the leachfield soil demonstrated much lower rates than the original percolation rates. It is anticipated that the disposal field has less capacity than its existing rated capacity of 11,700 gpd. This Order requires the discharger to evaluate the leachfield capacity.
 - The leachfield was originally designed based on a dosing of once or twice a day. Due to the locations of the discharge pipes in the effluent storage tank, dosing occurs approximately 10-20 times a day. This effectively reduces the capacity of the leachfield by not allowing use of the entire leachfield. This Order requires modification of the 5,000 gallon storage tank piping to allow twice a day dosing of effluent to the disposal field. Additionally, new piping and valves to allow rotation of dosing of effluent to either the upper or lower leachfield trench are required.
8. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin on December 11, 1991. The Basin Plan prohibits the discharge of wastewater with particular constituents of concern to beneficial uses, into non-tidal to Tomales Bay. The Basin Plan also requires that existing groundwater quality be maintained unless otherwise provided by the State Board. The Basin Plan contains water quality objectives for Tomales Bay.

9. The beneficial uses of Tomales Bay are:

- A. Water contact and non-contact recreation
- C. Ocean Commercial and sport fishing
- D. Wildlife habitat
- E. Preservation of rare and endangered species
- F. Marine habitat
- G. Fish migration
- H. Fish spawning
- I. Shellfish harvesting

- 10. The discharger is currently subject to Waste Discharge Requirements contained in Order 85-37, adopted by the Board on April 30, 1985.
- 11. Adoption of revised waste discharge requirements is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et. seq.) pursuant to Section 13389 of the California Water Code.
- 12. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.
- 13. The Board, in a properly-noticed public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the California Department of Parks and Recreation, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

- 1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
- 2. Waste shall not be allowed to escape from the designated disposal area via either surface flow or surfacing after percolation.
- 3. There shall be no bypass or overflow of waste to waters of the State from the collection, treatment or disposal system.
- 4. Discharge of wastewater to any land other than the designated disposal area is prohibited.
- 5. Wastewater ponding which could provide a breeding area for mosquitoes is prohibited.

6. The disposal of waste shall not cause degradation of ground or surface water suitable for domestic water supply or cause an increase in any water quality parameter that would impair beneficial uses of said waters.
7. Flow to the wastewater treatment plant shall not exceed 15,000 gpd (monthly average). This facility shall treat wastewater from only the existing facilities as described in finding No.2. The capacity may be increased to the original design capacity of 25,000 gpd (permitted under the previous Order No. 85-37) and thus may serve additional facilities, upon submittal of a capacity analysis acceptable to the Executive Officer.
8. The discharge of waste other than domestic wastewater is prohibited.

B. Discharge Limitations:

1. Effluent from the sewage treatment plant shall meet the following limits:

Settleable Solids	1.0 ml/l-hr maximum
5-day BOD	45 mg/l monthly average
Dissolved oxygen	2.0 mg/l minimum
Dissolved sulfide	0.1 mg/l maximum
pH	Not less than 6.0 nor greater than 9.0
Coliform organisms	Median MPN shall not exceed 240 organisms per 100 ml at some point in the treatment system (median value to be obtained from last 7 samples)

C. Provisions

1. The discharger shall submit a compliance schedule by January 1, 1993 acceptable to the Executive Officer for the completion of the tasks described below. If the installation of a new treatment plant renders these improvements unnecessary, this should be indicated in a report describing the design plans and intended time-frame for installation of the facilities.

Collection and Treatment facilities:


- a. Installation of standby power or emergency storage and an alarm panel at Marconi Hotel pump station,
- b. Installation of an emergency generator at the treatment plant,
- c. Refurbishing of sand filters, including the piping,
- d. Refurbishing or replacement of the redwood effluent storage tank. This shall include an evaluation of the capacity necessary to provide storage for a storm with the recurrence interval of 10 years,
- e. Calibration of the flow meter,
- f. Development of a contingency plan to assure continuous operation of the treatment and disposal facilities as required by Board Resolution 74-10 (attached). This involves, but is not limited to, identification of system components which are needed frequently or may fail imminently and making provisions for their prompt replacement when necessary.

Effluent Disposal:

- g. Evaluate the leachfield capacity,
 - h. Modify the 5,000 gallon storage tank piping to allow twice a day dosing of effluent to the disposal field and new piping and valves to allow rotation of dosing of effluent to either the upper or lower leachfield trench,
 - i. Evaluate the capacity requirements of the storage tank. If storage requirements exceed 5,000 gallons, provide additional capacity.
2. Sludges and other solids removed from liquid wastes shall be disposed of at a legal point of disposal and in accordance with the provisions of Division 7.5 of the California Water Code. For the purposes of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a Regional Board and which is in full compliance therewith.
 3. All sludge treatment, processing, storage or disposal activities under the Discharger's control shall be in compliance with current state and federal regulations.
 4. The discharger shall employ a treatment plant operator with at least a Grade II certification to supervise operation of the wastewater treatment plant, or demonstrate to the Executive Officer's satisfaction that an equivalent level of supervision is being maintained.

5. This Order supersedes Order 85-37, which is hereby rescinded.
6. The discharger shall comply with the self-monitoring program and all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986 except Standard Provision Nos. A.5, A.6, A.7, and C.6.
7. The discharger shall file with the Regional Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 17, 1992.



Steven R. Ritchie
Executive Officer

Attachments:
location map
self monitoring program
Resolution 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

MARCONI CONFERENCE CENTER

MARIN COUNTY

ORDER NO. 92 - 066

CONSISTS OF

PART A, dated December 1986

AND

PART B

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No #73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board.
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. DESCRIPTION OF SAMPLING

NOTE: A sketch showing the locations of the stations described below shall accompany each monthly report, and the Annual report for each calendar year.

1. Influent

Influent to the treatment plant shall be sampled as described below.

<u>Parameter</u>	<u>Sample Collection</u>
BOD	Quarterly
TSS	Quarterly

2. Effluent

Effluent from the treatment plant shall be sampled prior to disposal for the following parameters:

A. <u>Parameter</u>	<u>Sample Collection</u>
Flow (1)	Daily
Settleable matter	Weekly
BOD	Monthly
TSS	Monthly
Total Coliform	Monthly

(1) Both daily flow and monthly average (in gallons per day) shall be reported.

- B. An intensive sampling program shall be conducted during the months of July and January to evaluate treatment plant performance. Samples shall be taken prior to sand filtration.

<u>Parameter</u>	<u>Sample Collection</u>
BOD	two times per week
Settleable matter	two times per week
TSS	two times per week

3. Observations

- A. The discharger shall make weekly observations of the treatment plant and its perimeter, recording plant operation and any odors (strength, source, and area affected).
- B. The discharger shall also make weekly observations of the disposal area. At the leachfield, the discharger shall record any evidence of surfacing wastewater and any odor (strength, area affected).

III. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violations of Requirements

A report shall be made of any accidental spill of waste. Accidental spills shall be reported to this Regional Board by telephone immediately after it occurs / (510)464-1255. The subsequent written report shall be filed within five (5) days and shall contain information relative to:

- A. Nature of waste or pollutant,
- B. Quantity involved,
- C. Cause of spilling,
- D. Estimated size of affected area,
- E. Nature of effects (i.e., fish kill, discoloration of receiving water, etc.), and
- F. Corrective measures that have been taken, or planned, and a schedule of these activities.

2. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter and submitted by the fifteenth day of the following month. The reports shall be comprised of the following:

A. Letter of Transmittal

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications. Monitoring reports and the letter transmitting reports shall be signed by a responsible official. The letter shall contain a statement by the official, under penalty of

perjury, that to the best of the signer's knowledge the report is true and correct. If the report is included in a summary report of many California State Park facilities, then the cover letter should include an individual discussion of the compliance of each park facility.

B. Data Results

All results observed or analyzed in II, including dates and times of sampling and/or observations.

C. Map

A map shall accompany the report showing sampling and observation station locations.

3. **Annual Report**

An Annual Report for each calendar year shall be submitted to the Board by February 15th of the following year. The required contents of the annual report are described in Section G.5 of Part A.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 92-066.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.



Steven R. Ritchie
Executive Officer

Date 6/17/92

Attachment:
Standard Provisions